

ABSTRACT OF THE DISCLOSURE

The optical fiber has a dispersion value at a 1.55  $\mu\text{m}$ -wavelength band, of 6 to 24 ps/nm/km, and satisfies  $A > 3 \times D + 40$ , where D represents a dispersion value (ps/nm/km) at a central wavelength of a 1.55  $\mu\text{m}$ -wavelength band, and A represents an effective core area ( $\mu\text{m}^2$ ). The optical transmission line for transmitting an optical signal, which includes the optical fiber is provided as well.